

WHAT IS CLAIMED IS:

1. A clip-on glasses assembly for mounting on primary glasses, the assembly comprising:
  - (a) a pair of lens members;
  - 5 (b) at least one grapple on each of the pair of lens members for engaging the outer edges of the primary glasses;
  - (c) a bridge coupled between the lens members, the bridge configured to slidably receive the lens members to allow movement of the lens members between an open position  
10 wherein a space between the grapples is large enough to allow the clip-on glasses to be mounted on and removed from the primary glasses, and a closed position wherein the space between the grapples is small enough to prevent the clip-on glasses from being mounted on or removed from the  
15 primary glasses;
  - (d) means for biasing the lens members toward the closed position; and
  - (e) an actuator bar having two ends, each end coupled to one  
20 of the lens members, whereby moving the actuator bar toward the bridge forces the ends of the actuator bar apart and moves the lens members into the open position.
2. The glasses assembly of claim 1 wherein the actuator bar is generally U-shaped.  
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3. The glasses assembly of claim 2 wherein the actuator bar is constructed from a resilient material, and itself comprises the means for biasing the lens members toward the closed position.
- 30 4. The glasses assembly of claim 1 wherein each lens member comprises a slider bar attached to the top thereof, and the bridge

comprises a housing configured to slidably receive the slider bars at opposite ends thereof.

5. The glasses assembly of claim 4 wherein the means for biasing the lens members comprises a spring attached between each slider bar and a portion of the housing.  
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6. The glasses assembly of claim 5 wherein the bridge further comprises a locking mechanism for maintaining the lens members in the open position.  
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7. The glasses assembly of claim 6 wherein the locking mechanism comprises a lock bar and at least one biasing member configured to move the lock bar between the slider bars when the lens members are in the open position.  
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8. The glasses assembly of claim 7 wherein the locking mechanism further comprises a push button configured to extend through a correspondingly-sized aperture in the housing when the lock bar is between the slider bars.  
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9. A clip-on glasses assembly for mounting on primary glasses, the assembly comprising:  
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  - (a) a pair of lens members;
  - (b) at least one grapple on each of the pair of lens members for engaging the outer edges of the primary glasses;
  - (c) a bridge coupled between the lens members, the bridge configured to slidably receive the lens members to allow movement of the lens members between an open position wherein a space between the grapples is large enough to allow the clip-on glasses to be mounted on and removed  
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- from the primary glasses, and a closed position wherein the space between the grapples is small enough to prevent the clip-on glasses from being mounted on or removed from the primary glasses;
- 5       (d) means for biasing the lens members toward the closed position; and
- (e) a locking mechanism for maintaining the lens members in the open position.
- 10    10. The glasses assembly of claim 9, wherein each lens member comprises a slider bar attached to the top thereof, and the bridge comprises a housing configured to slidably receive the slider bars at opposite ends thereof.
- 15    11. The glasses assembly of claim 10 wherein the means for biasing the lens members comprises a spring attached between each slider bar and a portion of the housing.
- 20    12. The glasses assembly of claim 11 wherein the locking mechanism comprises a lock bar and at least one biasing member configured to move the lock bar between the slider bars when the lens members are in the open position.
- 25    13. The glasses assembly of claim 12 wherein the locking mechanism further comprises a push button configured to extend through a correspondingly-sized aperture in the housing when the lock bar is between the slider bars.
- 30    14. An actuating mechanism for a clip-on glasses assembly, said assembly having a pair of lens members and a bridge coupled between the lens members to slidably receive the lens members

and allow movement of the lens members between an open position and a closed position, said actuating mechanism comprising an actuator bar having two ends, each end adapted for coupling to one of the lens members such that moving the actuator bar toward the bridge will force the ends of the actuator bar apart and move the lens members into the open position.

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15. The actuating mechanism of claim 14 wherein the actuator bar is generally U-shaped.

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16. The actuating mechanism of claim 15 wherein the actuator bar is constructed from a resilient material, and itself biases the lens members toward the closed position.

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